	Application No.	Applicant(s)	<del></del>
Notice of Allowability	09/606,050	09/606,050 HONMA ET AL.	
	Examiner	Art Unit	
	Aaron Strange	2153	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	「S IS (OR REMAINS) CLOSED in L-85) or other appropriate commu NT RIGHTS. This application is s	this application. If not included inication will be mailed in due c	d ourse. <b>THIS</b>
1. This communication is responsive to <u>amendment filed</u>	<u>d 10/28/2004</u> .	•	•
2. X The allowed claim(s) is/are 15,18, and 19-27, renumb	pered 2,1, and 3-11.		
3. $\boxtimes$ The drawings filed on <u>10/25/2000</u> are accepted by the	e Examiner.		
4. Acknowledgment is made of a claim for foreign prior  a) All b) Some* c) None of the:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priori International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DA noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be substituted in APPLICATION (PTO-152) which are considered by the Notice of Draft:  (a) including changes required by the Notice of Draft:  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Exampaper No./Mail Date	have been received.  have been received in Application ty documents have been received.  ATE" of this communication to file pondent of this application.  Submitted. Note the attached EXA h gives reason(s) why the oath or must be submitted.  sperson's Patent Drawing Review niner's Amendment / Comment or	n No  I in this national stage application a reply complying with the requ MINER'S AMENDMENT or NO declaration is deficient.  ( PTO-948) attached in the Office action of	uirements OTICE OF
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as suc	CFR 1.84(c)) should be written on th h in the header according to 37 CF	e drawings in the front (not the b R 1.121(d).	ack) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the cattached Examiner's comment regarding REQUIREMI</li> </ol>	deposit of BIOLOGICAL MATE ENT FOR THE DEPOSIT OF BIO	RIAL must be submitted. No LOGICAL MATERIAL.	ote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	ormal Patent Application (PTO-	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-9	948) 6. ☐ Interview Su	mmary (PTO-413), Mail Date	•
3. Information Disclosure Statements (PTO-1449 or PTO) Paper No./Mail Date	/SB/08), 7. 🗌 Examiner's A	Amendment/Comment	
<ol> <li>Examiner's Comment Regarding Requirement for Depotential</li> </ol>	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allow	rance
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KRISNA L PRIMARY EX	LIM Aminer		

Application/Control Number: 09/606,050

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## Allowable Subject Matter

- 1. Claims 15 and 18-27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
- 3. With regard to independent claim 18 and its' respective dependents, the prior art of record fails to disclose all of the limitations of independent claim 18. Notably, the prior art of record describes management software systems for management of storage area networks (Brown et al., US 6,148,414), and further discloses systems for management of storage resources in a storage area network (Nolan et al., US 6,640,278) and even further discloses systems for serverless backup on a storage area network (Pathlight & Computer Associates, "Deliver server-free backup"). However, the prior art of record does not disclose a system as claimed, and as enabled by the specification, where the management software for the storage area network realizes acquisition of statistical information of resources of logical volumes, manages the volumes in accordance with the statistical information including usage of logical devices composing the logical volumes, predicts future usage of the logical devices based on the usage, <u>and</u> allocating logical devices in response to a command based on the future usage prediction.
- 4. With regard to independent claim 23 and its' respective dependents, the prior art of record fails to disclose all of the limitations of independent claim 23. Notably, the prior art of record describes management software systems for management of storage area

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networks (Brown et al., US 6,148,414), and further discloses systems for management of storage resources in a storage area network (Nolan et al., US 6,640,278) and even further discloses systems for serverless backup on a storage area network (Pathlight & Computer Associates, "Deliver server-free backup"). However, the prior art of record does not disclose a system as claimed, and as enabled by the specification, where the management software for the storage area network manages volumes in the storage area network in accordance with usage information obtained from disk drives about logical devices composing logical volumes in the storage are a network, predicts future usage of the logical devices based on the usage information, and allocating logical devices in response to a command based on the future usage prediction.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron Strange whose telephone number is 571-272-3959. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AS 4/20/2005

> KRISNA LIM PRIMARY EXAMINER